

Declaration and Power of Attorney

As a below-named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

A METHOD TO DETECT MUTATIONS IN A NUCLEIC ACID USING A HYBRIDIZATION-LIGATION PROCEDURE

the specification of which
(check one)

is attached hereto.

X was filed on March 24, 1995 as
Application Serial No. 08/409,644
and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information of which I am aware which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s) Number	Country	Filing Date	Priority Claimed Yes	No

Eric A. Schon
U.S. Serial No.: 08/409,644
Filed: March 24, 1995
Page 2

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date:

May 5, 1995

1995 Eric A. Schon

 [L.S.]

Witness:

Mary Lewis
Mary J. Lewis
338 Park Place
Brooklyn, N.Y. 11238

Declaration and Power of Attorney

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I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States Application(s) listed below and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112. I acknowledge the duty to disclose material information as defined in Title 35, Code of Federal Regulations, Sections 1.36(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status</u>

And I hereby appoint

John P. White, Reg. No. 28,678; Thomas F. Moran, Reg. No. 16,579;
Norman H. Zivin, Reg. No. 25,385; Ivan S. Kavrukoff, Reg. No. 25, 161;
Christopher C. Dunham, Reg. No. 22,301; Thomas G. Carulli, Reg. No. 30,616;
Robert D. Katz, Reg. No. 30,141; Peter J. Phillips, Reg. No. 29,691;
Richard S. Milner, Reg. No. 33,970; Matthew J. Golden, Reg. No. 35,161;
Albert Wai-Kit Chan, Reg. No. 36,479; Lewis J. Kreisler, Reg. No. 38,522;
and Kristina L. Konstas, Reg. No. 37,864

and each of them, all c/o Cooper & Dunham LLP, 1185 Avenue of the Americas,
New York, New York 10036 my attorneys, each with full power of substitution and revocation.
to prosecute this application, to make alterations and amendments therein, to receive the patent
to transact all business in the Patent and Trademark Office connected therewith and to file
any International Applications which are based thereon under the provisions of the Patent
Cooperation Treaty.

Please address all communications and direct all telephone calls, regarding this application to

John P. White

Reg. No. 28,678

Cooper & Dunham LLP
1185 Avenue of the Americas
New York, New York 10036
(212) 278-0400

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or
first joint inventor Eric A. Schon

Inventor's signature Eric A. Schon

Citizenship USA Date of signature 4/24/95

Residence 750 Kappick Street, Apt. 307, Bronx, New York 10463

Post Office Address same as residence address

Serial or Patent No. 08/409,644

Docket No: 44012

Filed or Issued: March 24, 1995

Title of Invention or Patent: A METHOD TO DETECT MUTATIONS IN A NUCLEIC ACID USING
A HYBRIDIZATION - LIGATION PROCEDURE

VERIFIED STATEMENT (DECLARATION) CLAIMING
SMALL ENTITY STATUS UNDER 37 C.F.R. §1.9(f)
AND §1.27(d) - NONPROFIT ORGANIZATION

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

Name of Organization: The Trustees of Columbia University in the City of New York

Address of Organization: West 116th Street & Broadway, New York, New York 10027

TYPE OF ORGANIZATION:

UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION
TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE 26 U.S.C. §§501(a) and
501(c)(3)

NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED
STATES OF AMERICA

NAME OF STATE: _____

CITATION OF STATUTE: _____

WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE 26 U.S.C.
§§501(a) and 501(c)(3) IF LOCATED IN THE UNITED STATES OF AMERICA

WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE
OF THE UNITED STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA

NAME OF STATE: _____

CITATION OF STATUTE: _____

I hereby declare that the nonprofit organization identified above qualifies as a
nonprofit organization as defined in 37 C.F.R. §1.9(e)* for purposes of paying
reduced fees under 35 U.S.C. §41(a) and 41(b), with regard to the invention entitled
A METHOD TO DETECT MUTATIONS IN A NUCLEIC ACID USING A HYBRIDIZATION - LIGATION

PROCEDURE

by inventor(s) ERIC A. SCHON,

described in:

the specification filed herewith
 application serial no. 08/409,644 filed March 24, 1995
 patent no. _____ issued _____

I hereby declare that rights under contract or law have been conveyed to and remain
with the nonprofit organization with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive each individual,
concern, or organization known to have rights to the invention is listed below and
no rights to the invention are held by any person, other than the inventor, who could
not qualify as a small business concern under 37 C.F.R. §1.9(d)* or a nonprofit
organization under 37 C.F.R. 1.9(e)*

*NOTE: Separate verified statements are required from each person, concern, or
organization having rights to the invention averring to their status as small
entities. 37 C.F.R. §1.27.

Name: Not Applicable

Address: _____

____ Small Business C. ____ profit Organization

37 C.F.R. §1.28(b)

(b) Once status as a small entity has been established in an application or patent, fees as a small entity may thereafter be paid in that application or patent without regard to a change in status until the issue fee is due or any maintenance fee is due. Notification of any change in status resulting in loss of entitlement to small entity status must be filed in the application or patent prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate pursuant to §1.9 of this part. The notification of change in status may be signed by the applicant, any person authorized to sign on behalf of the assignee, or an attorney or agent of record or acting in a representative capacity pursuant to §1.34(a) of this part.

Assignment

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, I, the undersigned, Eric A. Schon, residing at 750 Kappock Street, Apartment 307, Bronx, New York, 10463

Hereby sell, assign and transfer to Trustees of Columbia University in the City of New York a corporation of the State of New York having a place of business at West 116th Street & Broadway New York, NY 10032 in the County of New York and State of New York its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned on April 24, 1995 and is entitled

A METHOD TO DETECT MUTATIONS IN A NUCLEIC ACID USING A HYBRIDIZATION-LIGATION PROCEDURE (U.S. Serial No. 08/409,644, filed March 24, 1995)

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions;

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

OCTOBER 16, 1995

PTAS

JOHN P. WHITE, ESQ.
COOPER & DUNHAM LLP
1185 AVENUE OF THE AMERICAS
NEW YORK, NEW YORK 10036



100026109A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/05/1995

REEL/FRAME: 7499/0407
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
SCHON, ERIC A.

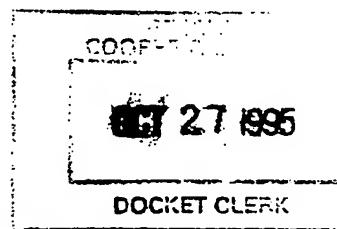
DOC DATE: 05/05/1995

ASSIGNEE:
TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, THE
116TH STREET & BROADWAY
NEW YORK, NEW YORK 10032

SERIAL NUMBER: 08409644
PATENT NUMBER:

FILING DATE: 03/24/1995
ISSUE DATE:

MARGARET LASALLE, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



07-05-1995

ocket No. 44012/JPW/JML

FORM PTO-1595 (Substituted)
(Rev. 6-93)

To the Honorable Commiss.

100026109

1. Name of conveying party(ies):

Eric A. Schon



Additional name(s) of conveying party(ies) attached?

 Yes No

3. Nature of Conveyance:

 Assignment Merger Security Agreement Change of Name Other _____

Execution Date: May 5, 1995

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: April 24, 1995

A. Patent Application No.(s)

08/409,644, Filed March 24, 1995

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John P. White, Esq.

Internal Address: _____

Street Address: Cooper & Dunham LLP

1185 Avenue of the Americas

City/State/Zip: New York, New York 10036

P 30114 08/30/95 08409644

Additional numbers attached? Yes No

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.61): \$ 40.00

 Enclosed Authorized to be charged to deposit account

8. Deposit account number:

03-3125

(Attach duplicate copy of this page if paying by deposit account)

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Nathan P. Letts

Name of Person Signing

Signature

June 1, 1995

Date

40.00CH

Total number of pages including cover sheet, attachments and document: 4

I hereby certify that this paper is being deposited this date with the U.S. Postal Service as first class mail addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231.

N.P. Letts 6/1/95
John P. White, Reg. No. 28,678
Nathan P. Letts, Reg. No. 36,581

OAS No. 0651-0011 (exp. 6/96)

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231